**Section 24 - Bulk Gasoline Plants.**
1/11/93

a. Applicability.

1. This Section applies to all unloading, loading, and storage operations at bulk gasoline plants and to any gasoline tank truck delivering or receiving gasoline at a bulk gasoline plant.

2. The following are subject only to the requirements of paragraphs (c)(3)(vii), (viii), and (ix) of this Section:

i. Any stationary storage tank of 2,082 liters (L) (550 gallons [gal]) capacity or less notwithstanding Section 8 of this regulation.

ii. Any bulk gasoline plant with an average daily throughput of gasoline of less than 15,000 L (4,000 gal) on a 30-day rolling average provided that records are maintained according to the requirements in paragraph (e)(1) of this Section. Any plant that becomes or is currently subject to all of the provisions of this Section by exceeding this applicability threshold will remain subject to these provisions even if its throughput later falls below the applicability threshold. Any facility that is currently subject to a state or federal rule promulgated pursuant to the Clean Air Act Amendments of 1977 by exceeding an applicability threshold is and will remain subject to these provisions, even if its throughput or emissions have fallen or later fall below the applicability threshold.

b. Definitions. As used in this Section, all terms not defined herein shall have the meaning given them in the November 15, 1990 Clean Air Act Amendments (CAAA), or in Section 2 of this regulation.

c. Standards.

1. Each bulk gasoline plant subject to this Section shall be equipped with a vapor balance system between the gasoline storage tank and the incoming gasoline tank truck designed to capture and transfer vapors displaced during filling of the gasoline storage tank. These lines shall be equipped with fittings that are vapor-tight and that automatically and immediately close upon disconnection.

2. Each bulk gasoline plant subject to this Section shall be equipped with a vapor balance system between the gasoline storage tank and the outgoing gasoline tank truck designed to capture and transfer vapors displaced during the loading of the gasoline tank truck. The vapor balance system shall be designed to prevent any vapors collected at one loading rack from passing to another loading rack.

3. Each owner or operator of a bulk gasoline plant subject to this Section shall act to ensure that the procedures in paragraphs (c)(3)(i) through (c)(3)(ix) of this Section are followed during all loading, unloading, and storage operations:

   i. The vapor balance system required by paragraphs (c)(1) and (c)(2) of this Section shall be connected between the tank truck and storage tank during all gasoline transfer operations.

   ii. All storage tank openings, including inspection hatches and gauging and sampling devices, shall be vapor-tight when not in use.

   iii. The gasoline tank truck compartment hatch covers shall not be opened during product transfer.

   iv. All vapor balance systems shall be designed and operated at all times to prevent gauge pressure in the gasoline tank truck from exceeding 450 millimeters (mm) (18 inches [in.]) of water and vacuum from exceeding 150 mm (5.9 in.) of water during product transfers.

   v. No pressure vacuum relief valve in the bulk gasoline plant vapor balance system shall begin to open at a system pressure of less than 450 mm (18 in.) of water or at a vacuum of less than 150 mm (5.9 in.) of water.

   vi. All product transfers involving gasoline tank trucks at bulk gasoline plants subject to this Section shall be limited to vapor-tight gasoline tank trucks.

   vii. Filling of storage tanks shall be restricted to submerged fill.

   viii. Loading of outgoing gasoline tank trucks shall be limited to submerged fill.

   ix. Owners or operators of bulk gasoline plants or owners or

operators of tank trucks shall observe all parts of the transfer and shall discontinue transfer if any vapor or liquid leaks are observed.

4. Each calendar month, the vapor balance systems described in paragraphs (c)(1) and (c)(2) of this Section and each loading rack that loads gasoline tank trucks shall be inspected for liquid or vapor leaks during product transfer operations. For purposes of this paragraph, detection methods incorporating sight, sound, or smell are acceptable. Each leak that is detected shall be repaired within 15 calendar days after it is detected.

d. Compliance provisions. A pressure measurement device (liquid manometer, magnehelic gauge, or equivalent instrument) capable of measuring 500 mm (20 in.) of water gauge pressure within a ±2.5 mm (0.098 in.) of water precision, shall be calibrated and installed on the bulk gasoline plant vapor balance system at a pressure tap, located as close as possible to the connection with the gasoline tank truck, to allow determination of compliance with paragraph (c)(3)(iv) of this Section.

e. Recordkeeping. The owner or operator of a facility subject to this regulation shall maintain the following records in a readily accessible location for at least 5 years and shall immediately make these records available to the Department upon verbal or written request.

1. All bulk gasoline plants subject to this Section shall maintain daily records showing the quantity of all gasoline loaded into gasoline tank trucks.

2. A record of each monthly leak inspection required under paragraph (c)(4) of this Section shall be kept on file at the plant. Inspection records shall include, at a minimum, the following information:

i. Date of inspection.

ii. Findings (may indicate no leaks discovered or location, nature, and severity of each leak).

iii. Leak determination method.

iv. Corrective action (date each leak repaired and reasons for any repair interval in excess of 15 calendar days).

v. Inspector name and signature.

f. Reporting. The owner or operator of any facility containing sources subject to this Section shall comply with the requirements in Section 5 of this regulation.